

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1604	318/439.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/08 15:28
L2	1	1 and (phase near3 excit\$6) and (phase near3 float\$6) and ((mask\$3 near3 (time or period)) with (detect\$6 near3 (ripple or parasitic or noise))) and ((bemf or (back adj emf)) with (zero adj2 cross\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/08 15:28
L3	1503	318/434.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/08 15:28
L4	5003	318/254.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/08 15:28
L5	2180	318/138.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/08 15:28
L6	0	(3 or 4 or 5) and (phase near3 excit\$6) and (phase near3 float\$6) and ((mask\$3 near3 (time or period)) with (detect\$6 near3 (ripple or parasitic or noise))) and ((bemf or (back adj emf)) with (zero adj2 cross\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/08 15:28
S1	87	inverter and controller and switch\$ and (dynamic\$ near3 brak\$) and (dissipat\$ or exhaust\$)	USPAT	OR	OFF	2006/01/19 17:17
S2	7	S1 and (step\$ near3 motor)	USPAT	OR	OFF	2001/04/16 16:04
S3	7	S1 and (step\$ near3 motor)	USPAT	OR	OFF	2001/04/16 16:05
S4	8	puzzle adj jigsaw	USPAT	OR	OFF	2001/04/16 16:06
S5	59	(brushless adj4 motor) and (start\$6 or accelerat\$6) and ((back adj emf) or bemf) near3 detect\$6) and ((zero adj cross\$4) with winding) and (start\$6 with (time or period or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/28 09:47
S6	5	S5 and (torque with (forward or backward))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 10:39

## EAST Search History

S7	17	("4169990"   "4479078"   "4510422"   "4594536"   "4603283"   "4641066"   "4678973"   "4700116"   "4743815"   "4752724"   "4814674"   "4814676"   "4922169"   "4961038"   "5017845"   "5028852"   "5151640").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/28 10:04
S8	1462	318/439.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/19 17:17
S9	2088	318/138.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/19 17:17
S10	1393	318/434.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/19 17:18
S11	0	(S8 or S9 or S10) and (((back adj2 efm) or befem or (counter adj2 emf) or cemf) with ((maximum or predeterm\$5) adj start\$6 adj time)) and ((one adj phase) near3 shiift\$5) and ((two adj phase) near3 shift\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/19 17:30
S12	62	(brushless adj4 motor) and (start\$6 or accelerat\$6) and ((back adj emf) or befem) near3 detect\$6) and ((zero adj cross\$4) with winding) and (start\$6 with (time or period or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 10:39
S13	2	S12 and (torque with (forward or backward)) and (float\$3 near3 phase)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 10:42
S14	19	S12 and ((zero adj cros\$6) with ((\$4excit\$6 or float\$3 or energiz\$3) near3 (winding or phase)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:02
S15	1	S14 and ((float\$3 near3 (winding or phase)) with (energ\$3 or excit\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:06
S16	1462	318/439.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:05
S17	1393	318/434.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:05

## EAST Search History

S18	2088	318/138.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:05
S19	4743	318/254.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:06
S20	6	(S16 or S17 or S18 or S19) and ((float\$3 near3 (winding or phase)) with (energ\$3 or excit\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:06
S21	5	(S20 not S15)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:09
S22	5	S21 and ((time or period) with (phase or winding))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:09
S23	3	S21 and ((time or period) with ((excit\$8 or energ\$8) near6 (phase or winding)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/20 11:10
S24	6601	(bemf or (back adj emf) or cemf or (counter adj emf))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/10 14:57
S25	282	S24 and ((initial or predeterm\$6) adj2 (coil or winding or phase))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/10 15:47
S26	193	"1" and ((initial or predeterm\$6) adj2 (coil or winding or phase)) with ((next or subsequent) adj phase)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/10 16:26
S27	96	S26 and start\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/10 16:27
S28	3	S27 and ((sens\$3 or detect\$6 or monitor\$3) near6 ((back adj emf) or bemf or (counter adj emf) or cemf))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/10 17:50
S29	2	"5397972".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/10 17:50

## EAST Search History

S30	2	S29 and (phase near2 shift\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/10 17:50
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